## EXHIBIT A



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## **Surface Modification Capabilities**

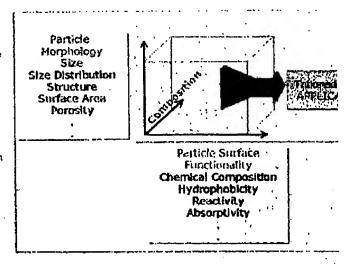
Cabot's core capabilities include our silica and our patented carbon surface modification technologies. Both of these technologies are based on chemically attaching organic functional groups to our fine particles.

In addition to manipulating particle composition and morphology, we also have the unique ability to vary surface chemistry and control how particles perform in a variety of applications.

liere's how this capability extends the functionality of carbon black and furned silica:

Carbon black is inherently hydrophobic. However, Cabot's
patented carbon surface modification technology allows
us to make hydrophilic carbon black particles, the foundation
of our highly successful Inkjet Colorants business. Our
pigment dispersions deliver performance superior to
traditional pigment dispersions or dye technologies,
including: greater optical density, enhanced lightfast and
smearfast properties, and sharper resolution of printed
images.

The flexibility of this disruptive technology is enabling us to move into emerging markets such as fuel cells, flat panel displays and low cost printable electronics.



Rumed silica is inherently hydrophilic. By treating the surface of silica, Cabot manufactures a wide variety of hydrophobic furned sil
that deliver performance benefits including: reduced moisture adsorption; effective rheology control in systems where untreated fu
oxide particles fail; and increased compatibility with organic systems.

In addition, our expertise with the surface modification of silica has allowed us to revolutionize the manufacture of silica aerogets, a launch our Nanoget® Aeroget business. Because of their distinguishing optical and thermal properties, Nanoget Aerogets are primal in architectural lighting (daylighting) and insulation applications.

We are capitalizing on our deep knowledge of silica surface chemistry to continue the development of new treated grades that delicenhanced performance in toners, adhesives, coatings and other markets.

For an interactive look at the chemistry and functionality of Cabot's carbon black and furned silica products, please visit our interactive i modules.

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